

ADAPTIVE EQUALIZER WITH DC OFFSET COMPENSATION

ABSTRACT OF THE DISCLOSURE

A method for compensating for attenuation in an input signal includes receiving an input signal, communicating a first portion of the input signal on a first path, communicating a second portion of the input signal on a second path, and  
5 communicating a third portion of the input signal on a third path. The method also includes applying a first gain to the first portion of the input signal, applying a first-order mathematical operation and a second gain to the second portion of the input signal, and applying a second-order mathematical operation and a third gain to the portion of the input signal. The method further includes recombining the first portion,  
10 the second portion, and the third portion into an output signal.